

**Montana Board of Oil and Gas Conservation  
Environmental Assessment**

**Operator:** American Midwest Oil & Gas Corp  
**Well Name/Number:** Koenig 12-33  
**Location:** SW NW Section 33 T35N R1E  
**County:** Toole MT; Field (or Wildcat) Wildcat

**Air Quality**

(possible concerns)

Long drilling time: No, 4 to 5 days drilling time.

Unusually deep drilling (high horsepower rig): No, 3200' TD

Possible H2S gas production: Yes

n/near Class I air quality area: No

Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required under 75-2-211.

Mitigation:

☒ Air quality permit (AQB review)

☐ Gas plants/pipelines available for sour gas

☐ Special equipment/procedures requirements

☐ Other: \_\_\_\_\_

Comments: N special concerns – using small rig to drill to 3200'

**Water Quality**

(possible concerns)

Salt/oil based mud: No, freshwater mud system, air and air mist.

High water table: No

Surface drainage leads to live water: No, closest drainage is Nine Mile Coulee, an ephemeral drainage.

Water well contamination: No

Porous/permeable soils: No, sandy bentonitic soils.

Class I stream drainage: No

Mitigation:

☐ Lined reserve pit

☒ Adequate surface casing

☐ Berms/dykes, re-routed drainage

☐ Closed mud system

☐ Off-site disposal of solids/liquids (in approved facility)

☐ Other: \_\_\_\_\_

Comments: Surface hole will be drilled to 300' and 7" casing cemented to surface. This is adequate to protect freshwater zones. Also, air/air mist and/or fresh water mud systems to be used.

**Soils/Vegetation/Land Use**

(possible concerns)

Stream crossings: No, stream crossings.

High erosion potential: No, flat cultivated area, little cut/fill required.

Loss of soil productivity: No, location will be restored after drilling.

Unusually large wellsite: No, 200'X200' location size required.

Damage to improvements: Slight, cultivated field.

Conflict with existing land use/values: Slight

Mitigation

☐ Avoid improvements (topographic tolerance)

☐ Exception location requested

☒ Stockpile topsoil

☐ Stream Crossing Permit (other agency review)

☒ Reclaim unused part of wellsite if productive

☐ Special construction methods to enhance reclamation

☐ Other \_\_\_\_\_

Comments: No special concerns

### Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences: Next to Suphellen road

Possibility of H2S: None

Size of rig/length of drilling time: Small drilling rig/short 4 to 5 days drilling time

Mitigation:

☒ Proper BOP equipment

☐ Topographic sound barriers

☐ H2S contingency and/or evacuation plan

☐ Special equipment/procedures requirements

☐ Other: \_\_\_\_\_

Comments: No concerns

### Wildlife/recreation

(possible concerns)

Proximity to sensitive wildlife areas (DFWP identified): None identified.

Proximity to recreation sites: No

Creation of new access to wildlife habitat: No

Conflict with game range/refuge management: No

Threatened or endangered Species: No

Mitigation:

☐ Avoidance (topographic tolerance/exception)

☐ Other agency review (DFWP, federal agencies, DSL)

☐ Screening/fencing of pits, drillsite

☐ Other: \_\_\_\_\_

Comments: No concerns

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### Historical/Cultural/Paleontological

(possible concerns)

Proximity to known sites: None identified

Mitigation

☐ avoidance (topographic tolerance, location exception)

☐ other agency review (SHPO, DSL, federal agencies)

Other: \_\_\_\_\_  
Comments: Private surface lands.

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### **Social/Economic**

(possible concerns)

- ☐ Substantial effect on tax base
  - ☐ Create demand for new governmental services
  - ☐ Population increase or relocation
- Comments: No concerns
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### **Remarks or Special Concerns for this site**

Well is a 3200' Nisku test

### **Summary: Evaluation of Impacts and Cumulative effects**

No long term impacts expected, some short term impacts will occur, but can be mitigated.

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I conclude that the approval of the subject Notice of Intent to Drill (does/**does not**) constitute a major action of state government significantly affecting the quality of the human environment, and (does/**does not**) require the preparation of an environmental impact statement.

Prepared by (BOGC): Thomas Richmond \_\_\_\_\_  
(title:) Administrator  
Date: December 13, 2013

Other Persons Contacted:

Montana Bureau of Mines and Geology, GWIC website

\_\_\_\_\_  
(Name and Agency)  
Toole County water well  
(subject discussed)  
December 13, 2013  
(date)

If location was inspected before permit approval:

Inspection date: \_\_\_\_\_

Inspector: \_\_\_\_\_

Others present during inspection: \_\_\_\_\_